IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the App Serial No.: Filed: For:	0 A U	APPARATUS FOR DEPOSITION OF JLTRASOUND ENERGY IN BODY	Group Art Unit: Examiner:	
Atty. Docket		92664-004		
		·		
	<u>V</u>	ERIFIED STATEMENT (DECLARATION CLAIMING SMALL ENTITY STATUBLE STAT		
I hereby declar identified belov		official empowered to act on behalf of the	e non-profit organization	
NAME OF O	RGANIZATIO	ON: Brigham and Women's Hospit	al	
ADDRESS OF	F ORGANIZA	TION: 75 Francis Street, Boston, Mas	sachusetts 02115	
TYPE OF OR	GANIZATIO	N:		
(x)	(x) University or other organization of higher education			
() Non-profit scientific or educational organization under a statute of a state of the United States of America			a statute of a state of the	
	NAME OF STATE:			
() and 501(c) (3)		y as tax exempt under the Internal Revenution were located in the United States of A		
()	Tax exempt under the Internal Revenue Service Code (26 USC 501(a) and 501(c) (3).			

(x) Wo state of the United	uld qualify as a non-profit scientific or educational organization under a statute of States of America
NA CIT	ME OF STATE:
I hereby declare the as defined in 37 CF United States Code	at the above-identified non-profit organization qualifies as a non-profit organization FR 1.9(e), for purposes of paying reduced fees under section 41(a) and (b) of Title 35.
I hereby declare the identified non-profi	at rights under contract or law have been conveyed to and remain with the above- t organization with regard to the invention titled:
TITLE:	APPARATUS FOR DEPOSITION OF ULTRASOUND ENERGY IN BOD'TISSUE
by:	Hutchinson, et al.
described in:	
() U.S. Pa	tification filed herewith tent Application Serial Number <u>08/747,033</u> d <u>November 8, 1996</u>
() U.S. Pa	tent Number
or organization have by any person, oth	above-identified non-profit organization are not exclusive, each individual, concern, ring rights to the invention is listed below* and no rights to the invention are held er than the inventor(s), who could not qualify as a small business concern under 37 n-profit organization under 37 CFR 1.9(e).
*NOTE: Separate having rights to the	verified statements are required from each named person, concern, or organization invention, averring to their status as small entities. (37 CFR 1.27).
FULL NAME: ADDRESS:	
() INDIVIDUAL	() SMALL BUSINESS CONCERN () NON-PROFIT ORGANIZATION
FULL NAME: ADDRESS:	
() INDIVIDUAL	() SMALL BUSINESS CONCERN () NON-PROFIT ORGANIZATION
FULL NAME: ADDRESS:	

() INDIVIDUAL () SMALL BUSINESS CONCERN () NON-PROFIT ORGANIZATION $% \left(1\right) =\left(1\right) \left(1\right)$

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under \$1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING:	Bio h dicks	BRIAN N. HICKS Acting Director
ADDRESS OF PERSON SIGNING:	75 Francis Street, Boston, Mass	Ventures Department
SIGNATURE:	Hill D	ATE: 1/31/97

ds1/302850

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, we hereby declare that:

the specification of which

(check one)

Our residences, post office addresses and citizenships are as stated below next to our names,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

APPARATUS FOR DEPOSITION OF ULTRASOUND ENERGY IN BODY TISSUE

x is attached hereto and

x was filed on November 8, 1996

as Application Serial No. 08/747,033

or Express Mail No. ______

and was amended on ______

(if applicable)

We do not know and do not believe that the subject matter of this application was ever known or used in the United States before our invention thereof or patented or described in any printed publication in any country before our invention thereof or more than one year prior to the date of this application, and that said subject matter has not been patented or made the subject of an issued inventor's certificate in any country foreign to the United States on an application filed by us or our legal representative or assign more than twelve months prior to the date of this application; that we acknowledge our duty to disclose information of which we are aware which is material to the examination of this application, that no application for patent or inventor's certificate on the subject matter of this application has been filed by us or our representatives or assigns in any country foreign to the United States, except those identified below, and that we have reviewed and understand the contents of the specification, including the claims as amended by any amendment referred to herein.

We acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

PRIORITY CLAIM

We hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by us on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

Check one:

- __ no such applications have been filed.
- __ such applications have been filed as follows

EARLIEST FOREIGN APPLICATION(S), IF ANY FILED WITHIN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

Country	Application Number	Date of Filing (month,day,year)	Priority Claimed Under 35 USC 119
			_ Yes No _
			_ Yes No _
			_ Yes No _
			_ Yes No _
			_ Yes No _

ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS (6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION

	 · · · · · · · · · · · · · · · · · · ·			
		_		

CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)

We hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, we acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application. As to subject matter of this application which is common to our earlier United States application, if any, described below, we do not believe that the same was ever known or used in the United States before our invention thereof or patented or described in any printed publication in any country before our invention thereof or more than one year prior to said earlier application, or in public use or on sale in the United States more than one year prior to said earlier application, that the said common subject matter has not been patented or made the subject of an inventor's certificate issued before the date of said earlier application in any country foreign to the United States on an application, filed by us or our legal representatives or assigns more than twelve months prior to said application and that no application for patent or inventor's certificate on said subject matter has been filed by us or our representatives or assigns in any country foreign to the United States except those identified herein.

60/006,413	November 9, 1995	pending
(Application Serial No.)	(Filed)	(patented, pending, abandoned)
		avandoned)
	: :	

POWER OF ATTORNEY

As the named inventors, we hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

David J. Powsner

Reg. No. 31,868

Sam Pasternack

Reg. No. 29,576

Mary Rose Scozzafava

Reg. No. 36,268

Brenda H. Jarrell

Reg. No. 39,223

Mary Raynor Jimenez

Reg. No. 37,219

Send Correspondence to:

CHOATE, HALL & STEWART, Exchange Place, 53 State Street, Boston, MA 02109-2891

Direct Telephone Calls to: (name and telephone number)

David J. Powsner, Esq., Tel.: (617) 248-4030

Wherefore we petition that letters patent be granted to us for the invention or discovery described and claimed in the attached specification and claims, and hereby subscribe our name to said specification and claims and to the foregoing declaration, power of attorney, and this petition.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first inventor	Erin Hutchinson
Inventor's signature	Malha
Date $2/\omega/97$	
Residence of first inventor	386 The Riverway #2, Boston, MA 02115
Citizenship	U.S.
Post Office address (if different)	same

Full name of second inventor	Mark Buchanan
Inventor's signature , Mark	Bul
Date 2/20/97	
Residence of first inventor	19 Upland Road, Burlington, MA 01803
Citizenship	U.S.
Post Office address (if different)	same

Full name of third inventor	Kullervo Hynynen
Inventor's signature	The Lyn
Date 2/20 /7 7	
Residence of first inventor	36 Oriole Road, Medfield, MA 02052
Citizenship	Finland
Post Office address (if different)	same

ds1/302856

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS:

Hutchinson et al.

ASSIGNEE:

Brigham and Women's Hospital

SERIAL NUMBER:

08/747,033

EXAMINER:

F. Jaworski

FILING DATE:

November 8, 1996

ART UNIT:

3737

FOR:

APPARATUS FOR DEPOSITION OF ULTRASOUND ENERGY IN

BODY TISSUE

Boston, Massachusetts

Assistant Commissioner for Patents

Washington, D.C. 20231

m

U

Ö

REVOCATION BY ASSIGNEE AND NEW POWER OF ATTORNEY

BRIGHAM AND WOMEN'S HOSPITAL, a Massachusetts corporation and owner of the above-identified United States patent application 08/747,033, filed November 8, 1996, in which the assignment was recorded on March 19, 1997, at Reel 8408/Frame 0181, hereby revokes any and all former powers of attorney and appoints:

Attorney or Agent	Registration No.	Attorney or Agent	Registration No.
David B. Bernstein	32,112	Barry J. Marenberg	40,715
David F. Crosby	36,400	William A.Marino	44,219
James G. Cullem	43,569	Leslie Meyer-Leon	37,381
Brett N. Dorny	35,860	A. Jason Mirabito	28,161
Marianne Downing	42,870	Michel Morency	Limited Recognition
Ivor R. Elrifi	39,529	Carol H. Peters	45,020
Heidi A. Erlacher	P-45,409	John T. Prince	43,091
John A. Harre	37,345	Mike Renaud	44,299
Shane Hunter	41,858	Brian Rosenbloom	41,276
David E. Johnson	41,874	Thomas M. Sullivan	39,392
Christina Karnakis	P-45,899	Howard Susser	33,556
Robert Klauzinski	42,742	Shelby Walker	45,192
Kristin E. Konzak	44,848	Martin M. Zoltick	34,745
Cynthia Kozakiewicz	42,764		

APPLICANTS: SERIAL NUMBER:





all of MINTZ, LEVIN, COHN, FERRIS, GLOVSKY AND POPEO PC, One Financial Center, Boston, Massachusetts 02111, as Applicants' attorneys with full power of substitution and revocation to take any and all action necessary with regard to the above-identified patent.

Send Correspondence To:

Ivor R. Elrifi Mintz Levin One Financial Center Boston, MA 02111 Direct Telephone Calls To: Ivor R. Elrifi

(617) 542-6000

BRIGHAM AND WOMEN'S HOSPITAL certifies under 37 C.F.R. § 3.73(b) that it is the Assignee of the entire right, title and interest in the patent identified above by virtue of assignments of the above identified patent.

I, the undersigned, am empowered to act on behalf of the Assignee. Acting on behalf of the Assignee, I have reviewed all the documents in the chain of title of the patent identified above and, to the best of my knowledge and belief, title is in the Assignee identified above.

I, the undersigned, hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the patent.

Please charge any fee or any fee deficiency occasioned by this document to Deposit Account No. 50-0311 (Reference No. 18989-012).

Respectfully submitted,

Brian N. Hicks

THE BRIGHAM AND WOMEN'S HOSPITAL, INC.

75 Francis Street

Boston, Massachusetts 02115

Date: 5/1/00

TRADOCS:1301371.1(RW5701!.DOC)



UNITED STATES DEPARTMENT Patent and Trademart Office ASSISTANT SECRETARY AND COMPENSAR OF PATENTS AND TRADEMARK

Washington, D.C. 20231

JUNE 16, 1997

PTAS

CHOATE, HALL & STEWART DAVID J. POWSNER, ESQ. EXCHANGE PLACE 53 STATE STREET BOSTON, MA 02109



UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH POOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION. BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 03/19/1997

REEL/FRAME: 8408/0181

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

HUTCHINSON, ERIN

DOC DATE: 02/10/1997

ASSIGNOR:

BUCHANAN, MARK

DOC DATE: 02/20/1997

ASSIGNOR:

HYNYNEN, KULLERVO

DOC DATE: 02/20/1997

ASSIGNEE:

BRIGHAM & WOMEN'S HOSPITAL 75 FRANCIS STREET

BOSTON, MASSACHUSETTS 02115

SERIAL NUMBER: 08747033

PATENT NUMBER:

FILING DATE: 11/08/1996

ISSUE DATE:

8408/0181 PAGE 2

DIANE RUSSELE, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

PRIM PTO-1595 R ev. 6-93) MB No. 0651-0011 (exp. 4/94)	997	t SHEE	U.S. DEPARTMENT	OF COMMERCE rademark Office
To the Honorable Commissioner o		ached origina	docamaris 1 2 op 1997 reof	
Name of conveying party(ies):	2. Name and	address of re	RECEIPT ACCTUG. DIV.	0 10
Kerin Hutchinson Mark Buchanan Kullervo Hynynen	Name: B	_	omen's Hospital	U.S. E
Additional name(s) of conveying party(ies) attached?		dress: 75 Fra	ancie Straat	825 09/
☐ Yes ⊠No	ouce na	uitoss. 75 Fie		₩ 📑
Nature of conveyance:	City: 1	Boston	State: MA	ZIP: 02115
Assignment	•		•	
Security Agreement	A 4 9%.*	/ \ 0 · · · /		
	Additional name	e(s) & address(es) attached? □ Yes Sa No •	0
Other 20 1007				-
xecution Date: February 20, 1997 Application number(s) or patent number(s):		· · · · · · · · · · · · · · · · · · ·		
If this document is being filed together with a new application, the	execution date of	of the application	on ic:	
if this document is being fried together with a new approach, the	execution date t	л ше аррпсац	oii is.	
. Patent Application No.(s)	B. Patent No.	(s)		
08/747,033				
Additional numbers	attached? Ye	s ⊠ No		
. Name and address of party to whom correspondence concerning document should be mailed:	6. Total numb	per of application	ons and patents involved:	1
Name: David J. Powsner, Esq.				
Internal Address: Choate, Hall & Stewart	7. Total fee (37 CFR 3.41)	\$	40.00
	■ Enclosed	d		
Street Address: Exchange Place 53 State Street	□ Authoriz	zed to be charg	ged to deposit account	
	8. Deposit ac	count number:	03-1721	
City: Boston State: MA ZIP: 02109	(Attach du	plicate copy of	f this page if paying by depo	osit account)
DO NOT USE THIS SPACE				
David J. Powsner Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. March 12, 1997				
Name of Person Signing Date				
Reg. No. 31,868 Total number of pages including cover sheet, anacyments with a 3628 ment 08747033 1 581 40.00 CK				
Mail documents to be recorded with required cover sheet information to:				
Commissioner of Patents a	nd Trademarks, I	Sox Assignments	3	

ASSIGNMENT

WHEREAS, Erin Hutchinson, of Boston, Massachusetts, Mark Buchanan, of Burlington, Massachusetts and Kullervo Hynynen, of Medfield, Massachusetts, having invented certain new and useful improvements in APPARATUS FOR DEPOSITION OF ULTRASOUND ENERGY IN BODY TISSUE for which we have made application for United States Letters Patent, said application filed with the United States Patent Office on November 8, 1996, Application Serial No. 08/747,033;

WHEREAS, BRIGHAM & WOMEN'S HOSPITAL, a Massachusetts corporation, having a place of business at 75 Francis Street, Boston, Massachusetts, and its successors and assigns (collectively hereinafter called "ASSIGNEE"), is desireous of acquiring our entire right, title and interest in and to the invention, and in-and to the said-application and any Letters Patent that may issue thereon;

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledge, we do hereby sell assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive right, title and interest in and to said invention and in and to said application and all patnets which may granted therefore, and all divisions, reissues, substitutions, continuations, continuations-in-part and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as my interest is concerned, to the said ASSIGNEE of my entire right, title and interest.

We also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention, and all rights to register said invention in appropriate registrys; and we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

We hereby further agree that we will communicate to said ASSIGNEE, or to its successors, assigns and legal representative, any facts known to me respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

IN WITNESS WHEREOF, I hereto set m	ny hand and seal at Flagstaff,
Avizona this x 10+	day of x February, 1947.
	Ein With
	Erin Hutchinson
STATE OF ANZONG COUNTY OF COCONINO	
0-4-1-25	SS.
COUNTY OF COCOMINO	Erin EH
Refore me this 10 day of February	19 97, personally appeared ERIC HUTCHINSON known to me
to be the person whose name is subscribed to the foregoing	ng Assignment and acknowledged that he executed the same
as his free act and deed for the purposes there is contained OFFICIAL SEA	d. 7
TOOLIGA M SNYDER	Veronica m Snigder
VERONICA M. SNYDER	NOTARY PUBLIC
NOTARY PUBLIC - STATE OF ARIZONA COCONENO COUNTY	1.1.11.2000
[Notary Salarai Here] Countries and 14, 2000.	My Commission Expires: JWY 14 2000

..

....

IN WITNESS WHEREOF, I hereto set my hand and seal at,	
this . 70 ^{+/-}	day of x February, 19x97.
STATE OF Massachusetts	Mark Buchanan
COUNTY OF SUFFCILC Before me this 30th day of Elsavary 19 Country to be the person whose name is subscribed to the foregoing A	77. personally appeared MARK BUCHANAN known to me
as his free act and deed for the purposes therein contained.	MOTARY PUBLIC ON (2) /20
(Notary's Seal Here)	My Commission Expires:

IN WITNESS WHEREOF, I hereto set my hand and seal at,		
$\frac{\chi}{\chi}$ this $\frac{70 + 4}{100}$ d	ay of tebruay, 19,97.	
STATE OF Mal) COUNTY OF Sufficient Before me this 2,74 day of Ebway, 1997, p me to be the person whose name is subscribed to the foregoing As	Kullervo Hynynen ss. ersonally appeared KULLERVO HYNYNEN known to signment and acknowledged that he executed the Like Affile NOTARY PUBLIC My Commission Expires: 12/9/95	

ds1/302846